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NAME

MEET 3 PYTHAGOREAN DIVISION JAN. 8, 1998

GRADE 9
30 MINUTES
ANSWER COLUMN

DIRECTIONS: Place your answer to each question below in the answer column.

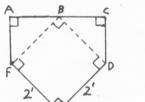
1) If $\frac{1}{5}$ of a number is $\frac{1}{4}$, what is $\frac{1}{4}$ of the number?

1)

2) If $x = \sqrt{x}$, $x = \frac{1}{3}x + 1$ and $x = x^2 + x$, express in simplest form.

2) _____

3) Express $\sqrt{(495)(497)+1}$ in simplest form.



3)

4) Find the area if EFBD is a square and $\triangle ABF$ and $\triangle BCD$ are isosceles.



5) The square of the sum of two numbers exceeds the square of their difference by 12. Find the product of the two numbers.

5)

- 6) Find a 6-digit number, all of whose digits are different, that has the property that when it is multiplied by 1, 2, 3, 4, 5, or 6, the resultant product contains the same set of digits. To find that number, divide the number 1 by the smallest whole number that has a six-digit repeating decimal.
- 6) _____